

Appl. No. 10/517,279
Amdt. Dated October 30, 2007
Reply to Office Action of July 2, 2007
Our Docket No. 7630-101

Filing date: November 15, 2004
Applicant Name: HIROYASU KAWADA
Examiner: Aaron C. Piggush
Art Unit: 2838

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 currently amended) A storage battery comprising:

main positive and negative terminals that are connected to a plate pack;

at least one auxiliary terminal that is connected via a connection portion to at least one of the main positive and negative terminals, said at least one auxiliary terminal having a shape smaller than the shape of each of the main positive and negative terminals;

a container for accommodation of the plate pack; and

a lid for covering an opening of the container; wherein

said lid has on its top a recess that has an area greater than the at least one auxiliary terminal and a closed side wall having an upper peripheral edge connected to a top surface of the lid,

at least one of said main positive and negative terminals are partly embedded in the lid,

said connection portion has a part embedded inside of the lid that extends from the at least one of the main positive and negative terminals embedded in the lid, and has an end protruding from the inside of the lid to the inside of the recess, and

said at least one auxiliary terminal is located at the protruding end.

Claims 2 - 3 (canceled)

Claim 4 (previously presented) The storage battery according to claim 1, wherein the end of the connection portion that protrudes to the inside of the recess on the top of the lid is embedded in resin filled and cured in the recess, so that said at least one auxiliary terminal is exposed on the surface of said resin.

Claim 5 (previously presented) The storage battery according to claim 4, wherein said part of the connection portion embedded inside of the lid has on its side a ring-shaped protrusion.

Claim 6 (canceled)

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Claim 7 (previously presented) The storage battery according to claim 1, further comprising a bushing monolithically formed with each of the main positive and negative terminals, wherein said connection portion is connected via the bushing to each of the main positive and negative terminals.

Claim 8 (previously presented) The storage battery according to claim 7, wherein the connection portion has a proximal end, said proximal end being a downwardly extending portion obliquely extending from an upper portion of the bushing.

Claim 9 (previously presented) The storage battery according to claim 8 wherein the connection portion is monolithically formed with the bushing.

Claim 10-11 (canceled)

Claim 12 (previously presented) The storage battery according to claim 1, wherein said recess on the top of the lid extends between the main positive and negative terminals, and said at least one auxiliary terminal inside of the recess comprises a pair of auxiliary terminals that are respectively connected to the main positive and negative terminals, and said main positive and negative terminals and said pair of auxiliary terminals are aligned in a substantially straight line.

Claim 13 -28 (canceled)

Claim 29 (previously presented) The storage battery according to claim 1, wherein said at least one auxiliary terminal in the recess on the top of the lid is disposed so as not to protrude outward from the top of the lid.

Claim 30 (previously presented) The storage battery according to claim 1, wherein the recess on the top of the lid provides a space, through which any one of a device for announcing the life of the battery and an automobile antitheft device is incorporated with the storage battery.

Claim 31 (new) The storage battery according to claim 1, wherein the at least one auxiliary terminals is located within the recess.

Claim 32 (new) The storage battery according to claim 1, wherein the majority of the top of the lid is flat.